THE 29 2005 E

JC04 Rec'd PCT/PTO 29 JUL 2005

		PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031
Under the Paperwork Reduction Act of 1995 TRANSMITTAL FORM	U.S. F. no persons are required to respond to a col Application Number Filing Date First Named Inventor Art Unit	Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE lection of information unless it displays a valid OMB control number. 10/532,907 April 27, 2005 Nathan T. Hayes
(to be used for all correspondence after initial	Examiner Name Attorney Docket Number	N/A N/A
Total Number of Pages in This Submission	10+	33072/101/101
ENCLOSURES (Check all that apply) After Allowance Communication to TC		
Fee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences
Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53	Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence A Terminal Disclaimer Request for Refund CD, Number of CD(s) Landscape Table on CD Remarks	Other Enclosure(s) (please Identify below): Attachment A: Bibliographic Listing, PTO/SB-08A &08B, Copies of Cited Referenced and Return Postcard
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name Nawrocki, Rooney & Sivertson P.A. Signature		
Printed name Richard C. Stempkovski, Jr.		
Date 7/27/05 Reg. No. 45,130		
CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:		
Signature Mulsse J. Abeldgaarb		
Typed or printed name Melissa A. Abeldgaard Date 7/27/05		

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Books

Computer Graphics

- Apodaca, Anthony and Larry Gritz. "Advanced RenderMan: Creating CGI for Motion Pictures." Morgan Kaufmann, 1999.
- Blinn, Jim. "Jim Blinn's Corner: A Trip Down the Graphics Pipeline." Morgan Kaufmann, 1996.
- Blinn, Jim. "Jim Blinn's Corner: Dirty Pixels." Morgan Kaufmann, 1998.
- Blinn, Jim. "Jim Blinn's Corner: Notation, Notation, Notation." Morgan Kaufmann, 2002.
- Dutre, Philip, Philippe Bekaert and Kavita Bala. "Advanced Global Illumination." AK Peters, 2003.
- Ebert, David, et. al. "Texturing & Modeling: A Procedural Approach." 3rd ed. Morgan Kaufmann, 2002.
- Foley, James, et. al. "Computer Graphics: Principles and Practice." Addison Wesley, 1990.
- Jensen, Henrik Wann. "Realistic Image Synthesis Using Photon Mapping." AK Peters, 2001.
- Neider, Jackie, Tom Davis and Mason Woo. "OpenGL Programming Guide."
 Addison Wesley, 1993.
- Piegel, Les and Wayne Tiller. "The NURBS Book." Springer Verlag, 1995.
- Shirley, Peter. "Fundamentals of Computer Graphics." AK Peters, 2002.
- Upstill, Steve. "The RenderMan Companion: A Programmer's Guide to Realistic Computer Graphics." Addison Wesley, 1992.
- Watt, Alan and Mark Watt. "Advanced Animation and Rendering Techniques."
 Addison Wesley, 1992.

Numerical Computing

- Cheney, Ward and David Kincaid. "Numerical Mathematics and Computing." Brooks/Cole Publishing, 1980.
- Knuth, Donald. "The Art of Computer Programming: Seminumerical Algorithms." Vol. 2, 3rd ed. Addison Wesley, 1997.

Interval Analysis

- Jaulin, Luc, et. al. "Applied Interval Analysis." Springer Verlag, 2001.
- Hansen, Eldon and William Walster. "Global Optimization Using Interval Analysis."
 2nd ed. Marcel Dekker, 2004.
- Moore, Ramon. "Interval Analysis." Prentice Hall, 1966.
- Snyder, John. "Generative Modeling for Computer Graphics and CAD: Symbolic Shape Design Using Interval Analysis." Academic Press, 1992.

Geometry and Physics

• Fowles, Grant. "Introduction to Modern Optics." Dover Publishing, 1968.

- McCluney, William Ross. "Introduction to Radiometry and Photometry." Artech House, 1994.
- Stolfi, Jorge. "Oriented Projective Geometry: A Framework for Geometric Computations." Academic Press, 1991.
- Wolfe, William. "Introduction to Radiometry." SPIE The International Society for Optical Engineering, 1998.

Publications and Journals

Computer Graphics

- Akeley, Kurt and Mark Segal. "The OpenGL Graphics System: A Specification." Ver. 1.5. Silicon Graphics, 2003.
- Amanatides, John. "Ray Tracing with Cones." Computer Graphics 18.3 (Jul. 1984): 129-135.
- Carpenter, Loren. "The A-buffer, an Antialiased Hidden Surface Method." Computer Graphics 18.3 (Jul. 1984): 103-108.
- Christensen, Per, et. al. "Ray Differentials and Multiresolution Geometry Caching for Distribution Ray Tracing in Complex Scenes." Computer Graphics Forum 22.3 (2003).
- Cook, Robert, Thomas Porter and Loren Carpenter. "Distributed Ray Tracing." Computer Graphics 18.3 (Jul. 1984): 137-145.
- Haeberli, Paul and Kurt Akeley. "The Accumulation Buffer: Hardware Support for High-Quality Rendering." Computer Graphics 24.4 (Aug. 1990): 309-318.
- Kajiya, James. "The Rendering Equation." Computer Graphics 20.4 (Aug. 1986): 143-150.
- Lau, Wing Hung and Neil Wiseman. "The Compositing Buffer: A Flexible Method for Image Generation and Image Editing." Computer Graphics Forum 14.4 (1995): 229-238.
- Lee, Jin Aeon. "Implementation of a Single-pass Antialiased Rasterization Processor." KAIST, 1999.
- Pixar. "The RenderMan Interface." Ver. 3.2, Jul. 2000.
- Slusallek, Philipp, Thomas Pflaum and Hans-Peter Seidel. "Using Procedural RenderMan Shaders for Global Illumination." Computer Graphics Forum 14.3 (1995): 311-324.
- Sung, Kelvin, Andrew Pearce and Changyaw Wang. "Spatial-Temporal Antialiasing." IEEE Transactions on Visualization and Computer Graphics 8.2 (Apr.-Jun. 2002): 144-153.
- Sung, Kelvin, et. al. "Design and Implementation of the Maya Renderer." Alias Wavefront, 1998.

Numerical Computing

• International Electrotechnical Commission. "Binary floating-point arithmetic for microprocessor systems." International Standard 60559, 2nd ed. 1989.

Interval Analysis

- Caprani, Ole, et. al. "Robust and Efficient Ray Intersection of Implicit Surfaces." Reliable Computing 6.1 (Feb. 2000): 9-21.
- Duff, Tom. "Interval Arithmetic and Recursive Subdivision for Implicit and Constructive Solid Geometry." Computer Graphics 26.2 (Jul. 1992): 131-138.
- Enger, Wolfgang. "Interval Ray Tracing a divide and conquer strategy for realistic computer graphics." The Visual Computer 9.2 (1992): 91-104.
- Greene, Ned and Michael Kass. "Error-Bounded Antialiased Rendering of Complex Environments." Computer Graphics (Jul. 1994): 59-66.
- Greene, Ned, Michael Kass and Gavin Miller. "Hierarchical Z-buffer Visibility."
 Computer Graphics (Aug. 1993): 231-238.
- Heidrich, Wolfgang and Hans-Peter Seidel. "Ray-tracing Procedural Displacement Shaders." Graphics Interface, 1998.
- Heidrich, Wolfgang, Philipp Slusallek and Hans-Peter Seidel. "Sampling Procedural Shaders Using Affine Arithmetic." ACM Transactions on Graphics 17.3 (Jul. 1998): 158-176.
- Kass, Michael. "CONDOR: Constraint-Based Dataflow." Computer Graphics 26.2 (Jul. 1992): 321-330.
- Toth, Daniel. "On Ray Tracing Parametric Surfaces." Computer Graphics 19.3 (Jul. 1985): 171-179.

Modal Interval Analysis

- Sainz, Miguel, et. al. "Ground Construction of Modal Intervals." University of Girona, 2001.
- Sainz, Miguel, et. al. "Interpretability and Optimality of Rational Functions." University of Girona, 2001.
- Sainz, Miguel, et. al. "Modal Intervals." Reliable Computing 7.2 (Apr. 2001): 77-111.
- Sainz, Miguel, et. al. "Semantic and Rational Extensions of Real Continuous Functions." University of Girona, 2001.